

A graphical user interface in which object thumbnails are rendered in a three-dimensional environment and which exploits spatial memory. The objects may be moved, continuously, with a two-dimensional input device.

- 5 Pop-up title bars may be rendered over active objects.
Intelligent help may be provided to the user, as visual
indicators, based on proximity clustering or based on
matching algorithms. The simulated location of the object
thumbnails in a direction orthogonal to the surface is
10 based on function, such as a linear, polynomial, or
exponential function for example, of one or more object
properties, such as number of mouse clicks since selected,
age, size, etc.